

## Agricultural Waste Management

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Kossuth County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
6: Okoboji-----	95	Very limited Depth to saturated zone Leaching limitation Restricted permeability	1.00  0.70  0.30	Very limited Depth to saturated zone Restricted permeability	1.00  0.22	Very limited Depth to saturated zone Restricted permeability	1.00  0.22
28: Dickman-----	95	Very limited Filtering capacity Leaching limitation Droughty	1.00  0.45  0.24	Very limited Filtering capacity Droughty	1.00  0.24	Very limited Filtering capacity Droughty	1.00  0.24
28B: Dickman-----	100	Very limited Filtering capacity Leaching limitation Droughty	1.00  0.45  0.24	Very limited Filtering capacity Droughty	1.00  0.24	Very limited Filtering capacity Droughty  Too steep for surface application	1.00  0.24  0.08
28C2: Dickman-----	100	Very limited Filtering capacity Leaching limitation  Droughty	1.00  0.45  0.24	Very limited Filtering capacity Droughty	1.00  0.24	Very limited Filtering capacity Too steep for surface application Droughty Too steep for sprinkler application	1.00  0.91  0.24  0.02
34: Estherville-----	85	Very limited Filtering capacity Droughty	1.00  0.52	Very limited Filtering capacity Droughty	1.00  0.52	Very limited Filtering capacity Droughty	1.00  0.52
34B: Estherville-----	95	Very limited		Very limited		Very limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
34C2: Estherville-----	90	Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Droughty	0.52	Droughty	0.52	Droughty	0.52
						Too steep for surface application	0.08
		Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Too steep for surface application	1.00
52B: Bode-----	95	Droughty	0.52	Droughty	0.52	Filtering capacity	1.00
		Slope	0.16	Slope	0.16	Droughty	0.52
						Too steep for sprinkler application	0.39
		Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
54: Zook-----	100	Very limited Restricted permeability	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Flooding	1.00	Restricted permeability	1.00
		Flooding	0.60	Restricted permeability	1.00	Flooding	0.60
		Leaching limitation	0.50				
55: Nicollet-----	95	Somewhat limited Depth to saturated zone	0.02	Somewhat limited Depth to saturated zone	0.02	Somewhat limited Depth to saturated zone	0.02
62C2: Storden-----	90	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
62D2: Storden-----	90	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Too steep for sprinkler application	0.02
						Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	0.77
62E2: Storden-----	85	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
62F: Storden-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
62G: Storden-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
73C2: Salida-----	100	Very limited Filtering capacity Droughty Leaching limitation	1.00 1.00 0.45	Very limited Filtering capacity Droughty	1.00 1.00	Very limited Filtering capacity	1.00
						Droughty	1.00
						Too steep for surface application	0.66

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
73E2: Salida-----	100					Too steep for sprinkler application	0.01
		Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Droughty	1.00	Droughty	1.00	Too steep for surface application	1.00
		Slope	1.00	Slope	1.00	Droughty	1.00
		Leaching limitation	0.45			Too steep for sprinkler application	1.00
90: Okoboji-----	95	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Leaching limitation	0.70	Restricted permeability	0.22	Restricted permeability	0.22
		Restricted permeability	0.30				
95: Harps-----	95	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Leaching limitation	0.70				
107: Webster-----	95	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Leaching limitation	0.70				
108: Wadena-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
108B: Wadena-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
133: Colo-----	100	Very limited Depth to saturated zone Leaching limitation Flooding	1.00 0.70 0.60	Very limited Depth to saturated zone Flooding	1.00 1.00	Too steep for surface application	0.08
						Very limited Depth to saturated zone	1.00
						Flooding	0.60
133B: Colo-----	95	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Too steep for surface application	1.00 0.01
135: Coland-----	95	Very limited Depth to saturated zone Leaching limitation Flooding	1.00 0.70 0.60	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone	1.00
						Flooding	0.60
138B: Clarion-----	85	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
138C: Clarion-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
138C2: Clarion-----	85	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
138D2: Clarion-----	85	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Too steep for sprinkler application	0.02
						Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	0.77
150: Hanska-----	95	Very limited Depth to saturated zone Filtering capacity Leaching limitation	1.00 1.00 0.70	Very limited Depth to saturated zone Filtering capacity	1.00 1.00	Very limited Depth to saturated zone	1.00
						Filtering capacity	1.00
181B: Clarion-----	60	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
Estherville-----	35	Very limited Filtering capacity Droughty	1.00 0.52	Very limited Filtering capacity Droughty	1.00 0.52	Very limited Filtering capacity	1.00
						Droughty	0.52
						Too steep for surface application	0.08
181C2: Clarion-----	60	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
Estherville-----	30	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Droughty	0.52	Droughty	0.52	Too steep for surface application Droughty Too steep for sprinkler application	0.91 0.52 0.02
203: Cylinder-----	95	Very limited Filtering capacity Depth to saturated zone	1.00 0.43	Very limited Filtering capacity Depth to saturated zone	1.00 0.43	Very limited Filtering capacity Depth to saturated zone	1.00 0.43
221: Palms-----	100	Very limited Depth to saturated zone Leaching limitation	1.00 0.90	Very limited Depth to saturated zone Low adsorption	1.00 1.00	Very limited Depth to saturated zone	1.00
224: Linder-----	95	Very limited Filtering capacity Depth to saturated zone Droughty	1.00 0.43 0.02	Very limited Filtering capacity Depth to saturated zone Droughty	1.00 0.43 0.02	Very limited Filtering capacity Depth to saturated zone Droughty	1.00 0.43 0.02
236B: Lester-----	90	Somewhat limited Too acid	0.03	Somewhat limited Too acid	0.14	Somewhat limited Too acid Too steep for surface application	0.14 0.08
236C: Lester-----	90	Somewhat limited Too acid	0.03	Somewhat limited Too acid	0.14	Somewhat limited Too steep for surface application Too acid Too steep for sprinkler application	0.91 0.14 0.02

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
236F: Lester-----	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Too acid	0.03	Too acid	0.14	Too steep for sprinkler application	1.00
						Too acid	0.14
259: Biscay-----	95	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Leaching limitation	0.70				
274: Rolfe-----	100	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Too acid	0.02	Too acid	0.07	Too acid	0.07
288: Ottosen-----	95	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43
		Restricted permeability	0.30	Restricted permeability	0.22	Restricted permeability	0.22
308: Wadena-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
308B: Wadena-----	90	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
						Too steep for surface application	0.08
325: Le Sueur-----	95	Somewhat limited		Somewhat limited		Somewhat limited	



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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
330: Kingston-----	95	Depth to saturated zone	0.43	Depth to saturated zone	0.43	Depth to saturated zone	0.43
		Somewhat limited Depth to saturated zone	0.02	Somewhat limited Depth to saturated zone	0.02	Somewhat limited Depth to saturated zone	0.02
335: Harcot-----	95	Very limited		Very limited		Very limited	
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Leaching limitation	0.70				
339B: Truman-----	90	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
348: Fieldon-----	95	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
349: Darfur-----	100	Leaching limitation	0.70				
		Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
354: Aquolls-----	100	Leaching limitation	0.70				
		Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Not Rated (miscellaneous unit)	1.00	Not Rated (miscellaneous unit)	1.00	Not Rated (miscellaneous unit)	1.00
		Slope	1.00	Not Rated (miscellaneous unit)	1.00	Not Rated (miscellaneous unit)	1.00
		Not Rated (miscellaneous unit)	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
388: Kossuth-----	95	Depth to saturated zone	1.00	Slope	1.00	Low adsorption	1.00
		Low adsorption	1.00	Low adsorption	1.00	Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
		Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
389: Waldorf-----	95	Leaching limitation	0.70	Restricted permeability	0.22	Restricted permeability	0.22
		Restricted permeability	0.30				
		Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Restricted permeability	0.89	Restricted permeability	0.78	Restricted permeability	0.78
485: Spillville-----	95	Leaching limitation	0.50				
		Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
485B: Spillville-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
506: Wacousta-----	95	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Leaching limitation	0.70				
507: Canisteo-----	95	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
511: Blue Earth-----	100	Leaching limitation	0.70				
		Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Leaching limitation	0.70				
559: Talcot-----	100	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Leaching limitation	0.70				
585B: Colo-----	55	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Leaching limitation	0.70	Flooding	1.00	Flooding	0.60
		Flooding	0.60			Too steep for surface application	0.08
Spillville-----	40	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
638B: Clarion-----	55	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
Storden-----	40	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
639C2: Storden-----	50	Not limited		Not limited		Somewhat limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
						Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
Salida-----	35	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Droughty	1.00	Droughty	1.00	Droughty	1.00
		Leaching limitation	0.45			Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
639D2: Storden-----	50	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	0.77
Salida-----	35	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Droughty	1.00	Droughty	1.00	Too steep for surface application	1.00
		Slope	0.63	Slope	0.63	Droughty	1.00
		Leaching limitation	0.45			Too steep for sprinkler application	0.77
654: Corwith-----	95	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43
655: Crippin-----	95	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
658: Mayer-----	95	Very limited Depth to saturated zone Filtering capacity Leaching limitation	1.00 1.00 0.70	Very limited Depth to saturated zone Filtering capacity	1.00 1.00	Very limited Depth to saturated zone Filtering capacity	1.00 1.00
733: Calco-----	100	Very limited Depth to saturated zone Leaching limitation Flooding	1.00 0.70 0.60	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 0.60
823: Ridgeport-----	100	Very limited Filtering capacity Droughty	1.00 0.93	Very limited Filtering capacity Droughty	1.00 0.93	Very limited Filtering capacity Droughty	1.00 0.93
823B: Ridgeport-----	95	Very limited Filtering capacity Droughty	1.00 0.93	Very limited Filtering capacity Droughty	1.00 0.93	Very limited Filtering capacity Droughty Too steep for surface application	1.00 0.93 0.08
823C2: Ridgeport-----	95	Very limited Filtering capacity Droughty	1.00 0.93	Very limited Filtering capacity Droughty	1.00 0.93	Very limited Filtering capacity Droughty Too steep for surface application Too steep for sprinkler application	1.00 0.93 0.91 0.02
879: Fostoria-----	95	Somewhat limited		Somewhat limited		Somewhat limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
895: Lemond-----	95	Depth to saturated zone	0.43	Depth to saturated zone	0.43	Depth to saturated zone	0.43
		Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Leaching limitation	0.70				
1032: Spicer-----	95	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Leaching limitation	0.70				
1133: Colo-----	95	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Leaching limitation	0.70				
1135: Coland-----	95	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Leaching limitation	0.70				
1485: Spillville-----	90	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
1595: Harpster-----	95	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Leaching limitation	0.70				
5010: Pits-----	100	Not rated		Not rated		Not rated	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
5040: Orthents-----	100	Not rated		Not rated		Not rated	
W: Water-----	100	Not rated		Not rated		Not rated	